

ABSTRACT

An optical fiber probe comprises an optical fiber, a first protective pipe holding the optical fiber therein for protection, and a collet attached to a front part of the first protective pipe. An adhesive is filled  
5 in a base part of the first protective pipe to form a sealing plug. The first protective pipe is formed in a length such that the base part of the first protective pipe is cooled by natural cooling at temperatures nearly equal to an ordinary temperature.